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(54) PRODUCTION OF SHEETS WITH LEATHER-LIKE TOUCH

(57) Abstract:

PURPOSE: An entangled nonwoven fabric which is composed of specific shrinkable polyester fibers and nonshrinkable polyester fibers is allowed to shrink in a prescribed amount, crystallized, impregnated with an elastic polymer, coagulated and finished, e.g., dyed to give the titled fiber sheet.

CONSTITUTION: An undrawn, high shrinking fiber A of polyethylene terephthalate polymer, which has been made by spinning at 2,500V/4,100m/min, and has at least 20%

shrinkage in 70°C water and less than 20% crystallinity is mixed with a nonshrinking polyester fiber of less than 10% shrinkage and more than 20% crystallinity, at a weight ratio of 90/10W/10/90 and they are entangled to each other to give a nonwoven fabric. The fabric is treated with hot water to effect 20W/75% area shrinkage, and heat-treated so that the crystallinity of the fiber A reaches 30% to give a fiber sheet of 1.5-0.1mm thickness and 100W/170° resilience angle. The sheet is impregnated with polyurethane, coagulated, dyed, surface-patterned, softened to a leather-like fiber sheet with oxide-like toughness.

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